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FRG To Use Chinese Satellite for Research *OW1005211288 Beijing XINHUA Domestic Service* *in Chinese 0600 GMT 7 May 88*

[Text] Bonn, 6 May (XINHUA)—In July this year, West Germany will use China's retrievable satellite to conduct two research projects under the weightless condition in space, the West German Ministry for Research and Technology announced today.

China will launch a satellite via a "Long March-2" rocket. The experiment module on the satellite will carry two sets of West German equipment, one for monitoring and recording the external conditions during the flight, and the other for conducting experiments in the growth of protein crystals.

West German Minister for Research and Technology Riesenhuber stressed that cooperation in science and technology has thus far been very successful between West Germany and China, especially the cooperation given by West German enterprises in building China's DFH-3 radio and television satellite and the cooperation between the West German Aviation and Space Research and Experiment Bureau and the China Astronautic Technology Research Institute. A joint symposium on micro-gravity, he said, is scheduled to be held in Bonn next December, the 10th anniversary of cooperation in science and technology between the two sides.

Accelerated Satellite Launchings To Aid Economy *OW1305032188 Beijing XINHUA Domestic Service in* *Chinese 1211 GMT 12 May 88*

[By correspondent Ren Weidong and reporter Zhou Zhongmin]

[Text] Beijing, 12 May (XINHUA)—China intends to launch several urgently needed and operational satellites in the near future for economic development purposes, a leading official of the Ministry of Aeronautics and Astronautics told XINHUA reporters at the fourth membership meeting of the Society of Aeronautics held today.

Based on the pressing need for the development of the national economy and construction, satellites for meteorological use, telecommunications, resources surveying, and marine undertakings will be listed as major tasks for China's satellite research and launch endeavors. It is reported that in the next few years, China will launch a weather satellite first, followed by a number of communications satellites. A more updated communications satellite with a large capacity will also be developed.

Since 1970, China has sent up a total of 21 satellites. Right now, China can produce and launch 8 to 10 satellites (with an average of 1 to 2 satellites actually launched each year). It has accumulated many valuable experiences.

It is reported that China has also attained gratifying results in making use of satellites to carry out scientific research. In August and September 1987, China launched two retrievable satellites with remote sensing ability to carry out experiments in material processing. With the torch-shaped gallium arsenide monocrystal obtained from the experiments, it has greatly improved the purity of monocrystals. In the field of biology, crop seeds, vegetables, flowers, medicinal plants and trees which went through testing in space showed different effects and results in germination percentage, growth rate, and genetic changes after they were planted on earth. Radish seeds which went through tests in space also showed strong resistance against insect pests after were planted on earth.

The official of the Ministry of Aeronautics and Astronautics pointed out: From now on, China will not only accelerate the research and launching of urgently needed and operational satellites for economic development purposes, but also actively expand cooperation with foreign countries and compete with other countries on the international market. While developing the "Long March-3" carrier rocket, it will step up the development of more advanced carrier rockets in order to further enhance its launching capability. In addition, research and preparations are being made to set up a space station and send Chinese astronauts into space.

Hainan Speeds Up Telecommunications Development

HK1105015588 Beijing ZHONGGUO XINWEN SHE
in Chinese 0857 GMT 8 May 88

[Text] Haikou, 8 May (ZHONGGUO XINWEN SHE)—Hainan will have 12,000 new automatic telephones this year. Long-distance communication lines are also heading for perfection. As a result, the difficulties in making telephone calls in Hainan will be minimized.

Ji Taizhi, deputy director of Hainan Post and Telecommunications Bureau, said that since the preparations made to establish Hainan Province, businessmen and tourists at home and abroad have come to Hainan one after another, leading to a strain in telecommunications. To meet the pressing need, Haikou imported a 2,000-programmed telephone project from Canada which is expected to be connected in June this year; the 5,000-programmed telephone project imported from Japan last year which is now under construction is expected to be connected by the end of 1988; and the 3,000-programmed telephone project imported by Sanya from Hong Kong can be put into operation in June this year. Consequently, Haikou, and Sanya will have 10,000 new automatic telephones this year, greatly easing the strain in telecommunications.

Ji added that construction of Hainan's long-distance communication lines is proceeding rapidly. The Haikou-Guangzhou 1,800-microwave communication line

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project and the Haikou-Sanya 960-microwave communication line project have been completed and put into operation. Now Haikou, Sanya, and Tongshen can dial direct to Guangzhou, Beijing, and Hong Kong. In addition, the 300-coaxial underground cable running through the center of Hainan has also been connected. The cable which links with the mainland cable from northern Sanya and through Haikou is 320 km in length. The connection has made it convenient for the Li and Miao nationalities in the Wuzhishan hinterland to maintain contacts with the outside.

Of the 19 cities and counties in Hainan, 13 have automatic telephones. The three counties including Dongfang, Tunchang, and Baisha will have automatic telephones installed this year. The whole island will be connected with automatic telephones in the next year or the year after.

It has been reported that Hainan will invest 200 million yuan in post and telecommunications construction in the next 3 years. Apart from the 25,000- and 10,000-programmed telephone projects respectively in Haikou and Sanya, an optical fiber cable project will be built in the east to connect Qionghai, Wenchang, Qionghai, Wanning, and other Overseas Chinese hometowns.

Ji Taizhi said that Hainan is seeking cooperation with foreign businessmen in developing post and telecommunications. So far the United States, FRG, France, Japan, Sweden, and Canada have sent delegations to Hainan to conduct a survey of post and telecommunications undertakings. Hainan plans to invite tenders from abroad to build the east optical fiber cable project and the 35,000-programmed telephone project in Haikou and Sanya.